

20000320.qrp v01_n766.qrl.20000320

Date: Mon, 20 Mar 2000 19:03:07 EST

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1766

QRP-L Digest 1766

Topics covered in this issue include:

- 1) [66095] Garfield
by "Dan W. Dooley" <dandooley@pipeline.com>
- 2) [66096] VA3SBB Beacon on 3.580 MHz
by Fred Lesnick <flesnick@tbaytel.net>
- 3) [66097] re: WWVB Status
by Rick Sealey <rsealey@InfoAve.Net>
- 4) [66098] IC-R75 users ?
by John Raynsford <al7jk@gci.net>
- 5) [66099] Timmonium, the real deal.
by Bruce Muscolino <w6toy@erols.com>
- 6) [66100] New OPS
by "Stuart Satrun" <kc8lah@hotmail.com>
- 7) [66101] Re: FS: Sierra and LDG QRP Tuner
by Jim Bennett <w6jhb@pacbell.net>
- 8) [66102] Sierra and LDG Tuner Sold
by Jim Bennett <w6jhb@pacbell.net>
- 9) [66103] An "oops" in the 30 Meter CUB instructions
by "Ray Sills" <raysills@castle.net>
- 10) [66104] RE: WWVB Status
by "Kevin Muenzler WB5RUE" <wb5rue@stic.net>
- 11) [66105] vanity call: long story
by "Mike Mullins" <mmullins@mastnet.net>
- 12) [66106] Re: HB: Low Phase Noise VFO
by "Steve Yates, AA5TB" <aa5tb@swbell.net>
- 13) [66107] Re: WWVB Status
by "Frank Krozel" <frank@electronicinstrument.com>
- 14) [66108] Re: Congratulations are Not in Order
by AdamN7YA@aol.com
- 15) [66109] my apologies
by AdamN7YA@aol.com
- 16) [66110] <Help> Repairing old military generator
by mikemo@attglobal.net
- 17) [66111] Re: [secondclassopsclub] Garfield
by "Nick Yokanovich" <k3ny@toad.net>
- 18) [66112] Re: [secondclassopsclub] Garfield
by "Nick Yokanovich" <k3ny@toad.net>
- 19) [66113] RE: You know you are a homebrewer when

- by "T.J. \"SKIP\" Arey N2EI" <tjarey@home.com>
- 20) [66114] Re: [secondclassopsclub] Garfield
by KD1YV <kd1yv@mindspring.com>
- 21) [66115] Re: my apologies
by Ray Colbert <af852@rgfn.epcc.edu>
- 22) [66116] VE Badge
by "ukii" <ukii@megsinet.net>
- 23) [66117] OT: That feeling of accomplishment
by "Bill Allen" <bill@pcatexas.com>
- 24) [66118] Re: my apologies
by GElam30092@aol.com
- 25) [66119] The change in everything but.....
by David Kidd <ka7ozo@pacifier.com>
- 26) [66120] 30's Wide Open -- VP6BR 106.8 up2
by aweiss@usd.edu (Ade Weiss W0RSP)
- 27) [66121] What is "REAL"!
by AD6EZ@aol.com
- 28) [66122] HB SW 20-20
by aberkuta <aberkuta@shoal.net.au>
- 29) [66123] Cutting PCB material
by Peter_Simpson@ne.3com.com
- 30) [66124] OT:EAGLE from CADSOFT
by "Dieter \"Diz\" Gentzow WB8QYY" <wb8qyy@cinci.rr.com>
- 31) [66125] RE: Congratulations are Not in Order
by Karl Kanalz <KKanalz@excel.com>
- 32) [66126] Re: VE Badge
by Hank Kohl K8DD <k8dd@arrl.net>
- 33) [66127] Re: OT:EAGLE from CADSOFT
by Bruce Muscolino <w6toy@erols.com>
- 34) [66128] FS: MFJ 20M CW transceiver with MFJ keyer installed.
by "Vincent Ferme" <vferme@sprint.ca>
- 35) [66129] PSK31 / IC-706
by John R Kirby <n3aaz-qrp@juno.com>
- 36) [66130] RE: WWVB Status
by "Kevin Muenzler, WB5RUE" <wb5rue@stic.net>
- 37) [66131] Penntek Electronics
by "Mike Besemer (KG8L)" <kg8l@worldnet.att.net>
- 38) [66132] 9K2GS my highlight
by "AI2Q Alex" <ai2q@ispchannel.com>
- 39) [66133] Re: HB: Low Phase Noise VFO
by Laura Halliday <va3ldh@sympatico.ca>
- 40) [66134] RE: QRP to the Field 2000 Rules
by "Hare, Ed, W1RFI" <w1rfi@arrl.org>
- 41) [66135] SWAP: Randy Henderson xcvr boards+book for SWL
by "Craig A. Ferris" <cferris@aeronix.com>
- 42) [66136] re:epiphyte
by neil tanner <ntan@crosslink.net>
- 43) [66137] Re: HB: Low Phase Noise VFO

by Bruce Kizerian <kizerian@ced.utah.edu>
44) [66138] QRQ Net Report.
by Ed Loranger <we6w@qsl.net>
45) [66139] WTB: Cushcraft R5
by Pat Byers <pbyers@rttinc.com>
46) [66140] Kudos to LDG
by Jeff <fantbb@yahoo.com>
47) [66141] WAY OFF-TOPIC TOPICS
by lujce@Lehigh.EDU
48) [66142] Re: [secondclassopsclub] Garfield
by Gary Lee Phillips KA9NZI <ka9nzi@arrl.net>
49) [66143] Re: HB: Low Phase Noise VFO
by "Cla KA0GKC" <ka0gkc@arrl.net>
50) [66144] HB?:Batteries
by Rod Johnson <ka7you@juno.com>
51) [66145] Grand Junction Colorado
by "Mugleston, Brad" <brad.mugleston@gwl.com>
52) [66146] Re: Spider questions
by "Mike =?ISO-8859-1?Q?N=D8WDM"?= <michaelbstjames@email.msn.com>
53) [66147] Re: [secondclassopsclub] Garfield
by Pete Burbank <plburbank@kih.net>
54) [66148] Re: QRP-L digest 1764
by Anthony Felino <anthony@pacinfosb.com>
55) [66149] Re: HB: Low Phase Noise VFO
by Laura Halliday <va3ldh@sympatico.ca>
56) [66150] Re: HB: Low Phase Noise VFO
by "John Moriarity" <k6qq@hdo.net>
57) [66151] most enjoyed QRP construction project
by "Bill Allen" <bill@pcatexas.com>
58) [66152] Web Page
by Joe Mikuckis <k3chp@erols.com>
59) [66153] HB: Single chip CW Rx
by "Steven Weber" <kd1jv@moose.ncia.net>

Date: Sun, 19 Mar 2000 17:53:51 -0600
From: "Dan W. Dooley" <dandooley@pipeline.com>
To: "QRP List" <qrp-l@Lehigh.EDU>
Subject: [66095] Garfield
Message-ID: <000901bf91fe\$63d223a0\$05987b7b@CSS0048.bergenbrunswick.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Anyone checked out the opening panel of Garfield today?

Not too sure about the (R) symbol however.....

Dan W. Dooley WB5TKA Bedford, Texas EM12ku

e-mail to: dandooley@pipeline.com

May Goddes love blest ye alle

SOC#198

"Ancient Pistol, I do partly understand your meaning."

Date: Sun, 19 Mar 2000 19:18:17 -0500

From: Fred Lesnick <flesnick@tbaytel.net>

To: "'cw@qth.net'" <cw@qth.net>, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>, QRP Canada <qrp-canada@lists.gpfn.sk.ca>

Subject: [66096] VA3SBB Beacon on 3.580 mHz

Message-ID: <38D56E44.6A8314EF@tbaytel.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Running my VA3SBB QRP Beacon tonight on 3.580 from 0030-0500 z.....

Listen up and let me know if you are hearing it...I am running 1 watt into a vertical loop.....Was gonna try on 40 metres, but dont want to crowd the qrp freqs.....

Thanks

Fred

VE3FAL

VA3SBB/BCN

ve3fal@hotmail.com

flesnick@tbaytel.net

Date: Sun, 19 Mar 2000 19:28:14 -0500

From: Rick Sealey <rsealey@InfoAve.Net>

To: qrp-1@lehigh.edu

Subject: [66097] re: WWVB Status

Message-ID: <4.1.20000319192704.01f69220@mail.infoave.net>

MIME-version: 1.0

Content-type: text/plain; charset="us-ascii"

The following URL will provide you with current (and historical) information on WWVB's operations:

<http://www.boulder.nist.gov/timefreq/wwwstatus.htm>

Date: Sun, 19 Mar 2000 15:49:17 -0900
From: John Raynsford <al7jk@gci.net>
To: qrp Discussion <qrp-l@Lehigh.EDU>
Subject: [66098] IC-R75 users ?
Message-ID: <38D5758C.C102031B@gci.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Does the new IC-R75 receiver have a provision for muting when used with a transmitter? Theres no mention of it in the recent product review in Qst.

I've been using a Yaesu frg-8800 since its introduction with my various Qrp + Qro rigs at home. The frg's mute lines work very well wiring them up with the transceivers tx-rx switching. I prefer to use seperate antennas for each transceiver and receiver.

73 AL7JK, John

Date: Sun, 19 Mar 2000 20:42:51 -0500
From: Bruce Muscolino <w6toy@erols.com>
To: qrp-l@lehigh.edu
Subject: [66099] Timmonium, the real deal.
Message-ID: <38D5821B.2A1E@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

As many of you know next weekend the east coast is blessed with two QRP forums, Atlanticon, and Timmonium, Maryland. The forum at Timmonium will be a low key event, partly because of my handicap, and partly to not steal anything from Atlanticon. You folks who are going up there just go and have a good time. You folks who are coming to Timmonium please save this email!

The Timmonium Hamfest is held EVERY year at the Timmonium Fairgrounds in Timmonium, Maryland. Actually there aer two hamfests held here each year, Spring and Summer!

Timonium is north of Baltimore. You get there by taking the Baltimore Beltway around Baltimore to the North and getting off on Route I-83, the road to York, Pennsylvania. Timonium is the first, or second exit after leaving the Beltway. You cannot miss it! Conversely, if you are coming down from Pennsylvania, get off on the Timonium exit from Route I-83. The hamfest is only a short way after you leave Route I-83. You cannot miss it! There is also service from Baltimore's Light Rail too.

The QRP Forum will be held at 10:30 AM on Saturday morning, in the 'Vista' Room! The 'Vista' Room is located to the LEFT of the exhibit hall as you face it. It is down a small hill. There is no admission to the QRP forum, just bring your smiling face! There will likely be coffee available in the room. The room is on the second floor.

There will be a limited number of free handouts of QRP information and some back issues of QRP Quarterly for sale if anyone wants them. There will probably be no equipment to show this year because of my handicap situation. We will discuss what QRP is and how to get on the air. I will be aided by Mike C., recent president of the QRP ARCI and Jake Carter, a very successful QRPer from Northern Virginia. He will tell you what you can do with QRP power and an indoor antenna! It should be fascinating!

For those of you who are die hard CW addicts, the session before mine will be on CW Etiquette, given by Steve Scheinburg, W3SY, and the session immediately after mine will be an ARRL Forum. Dr. Kay Cragie, WT3P, whose husband is an active QRPer, is one of the presenters!

I hope to see all of you (who can make it) there!

73

Date: Mon, 20 Mar 2000 01:39:42 GMT
From: "Stuart Satrun" <kc8lah@hotmail.com>
To: qrp-l@Lehigh.EDU
Subject: [66100] New OPS
Message-ID: <20000320013942.33813.qmail@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

What's happening is change...evolution...the natural way of things..
I hear new hams on the air every day...many are refugees from 11
meters...and they are TRYING TO CHANGE...to eliminate old habits...
they seem proud and happy to join a select group of responsible
adults that use radio communication as a bed for experiment, growth,

innovation and PUBLIC SERVICE. They leave behind a roaring jangle of cursing and constant jibberish and (hopefully) enter a quieter more thoughtful world.

These people are not responsible for the new rules...they are doing what we all do...taking advantage of opportunity...it's the right thing for them to do. This is a fun hobby..and a learning environment. No matter when we were licensed.. (16 months for me) we all came to this hobby with a desire....and I suggest that desire was for the positive, not the negative, destructive, divisive attitude of "my extra class license is better than yours"....REALLY...Ohhhh Kaaayy.

73

stu kw8k (ex-kc8lah)

p.s. Did you notice Jim WB8SIW signed his missive with a -30- ?
I'll bet he carries a big blue pencil.

Get Your Private, Free Email at <http://www.hotmail.com>

Date: Sun, 19 Mar 2000 17:57:07 -0800
From: Jim Bennett <w6jhb@pacbell.net>
To: qrp-1@Lehigh.EDU
Subject: [66101] Re: FS: Sierra and LDG QRP Tuner
Message-ID: <009901bf920f\$98d31bc0\$0100005a@bennett.com>
MIME-version: 1.0
Content-type: text/plain; charset="iso-8859-1"
Content-transfer-encoding: 7bit

Thanks to all who replied - both units have been sold.

Jim Bennett / W6JHB@ARRL.NET

25 Lagunita Court
Martinez, CA 94553-3039

Date: Sun, 19 Mar 2000 17:56:29 -0800
From: Jim Bennett <w6jhb@pacbell.net>
To: qrp-1@Lehigh.EDU
Subject: [66102] Sierra and LDG Tuner Sold
Message-ID: <009501bf920f\$824ccfe0\$0100005a@bennett.com>
MIME-version: 1.0
Content-type: text/plain; charset="iso-8859-1"
Content-transfer-encoding: 7bit

Thanks to all who replied - both units have been sold, in record time!

Jim Bennett / W6JHB@ARRL.NET

25 Lagunita Court
Martinez, CA 94553-3039

Date: Sun, 19 Mar 2000 21:33:49 -0500
From: "Ray Sills" <raysills@castle.net>
To: qrp <qrp-1@lehigh.edu>
Subject: [66103] An "oops" in the 30 Meter CUB instructions
Message-ID: <200003200234.VAA14706@nile.intac.com>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

Hi Group:

I'm building the 30 meter version of the CUB.. and it's done.. except for one "missing" part.
I have the part (a 330 pf capacitor)... but the instruction booklet failed to mention that it's supposed to be C-52 and that it should be installed. C-52 is mentioned in the other band versions, but not the 30 meter version. It's a coupling capacitor between the driver and the final transistor, so we're gonna need it.

All this came about when I noticed that I had one part left over after checking off all the little boxes in the instruction book. Eventually, I determined that it was C-52 that was not accounted for.

Otherwise, everything else seems OK. The receiver section works, but I have not yet aligned the rig. That's next.

73 de Ray
K2ULR
FN20t1

Date: Sun, 19 Mar 2000 20:36:20 -0600
From: "Kevin Muenzler WB5RUE" <wb5rue@stic.net>
To: "'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.EDU>
Subject: [66104] RE: WWVB Status
Message-ID: <000701bf9215\$1460f410\$703dc6d8@wb5rue>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Thought I'd check it out. I reset my Radio Shack "atomic clock" and within a couple of minutes it had the right time. So yes, WWVB is up and running.

Kevin, WB5RUE

> -----Original Message-----
> From: owner-qrp-l@Lehigh.EDU
> [mailto:owner-qrp-l@Lehigh.EDU]On Behalf Of
> Frank Krozel
> Sent: Sunday, March 19, 2000 11:00 AM
> To: Low Power Amateur Radio Discussion
> Subject: Re: WWVB Status
>
>
> WWVB (60Khz) is very much in operation...

Date: Sun, 19 Mar 2000 20:50:35 -0600
From: "Mike Mullins" <mmullins@mastnet.net>
To: "QRP-L post message" <qrp-l@lehigh.edu>
Subject: [66105] vanity call: long story
Message-ID: <002701bf9217\$1bad2b60\$33d542ce@downstairs>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I recently got interested in DX. It's happened several times that the other op got the first 4 or 5 characters of my call, but not all. So... since I won't run more power, maybe I could shorten my call. I followed the instructions on the ARRL website (or so I thought) and got the forms. I picked out a few 1x2 and 2x1 calls (I memorized all the Extra questions to pass the test), and sent in form 605D and form 159. I was really excited when I got the reply from the FCC: what would my new call be? However, I was disappointed to find that my application was 'dismissed ... without prejudice... '. Sheesssh. You need 3 forms including 605 'main'. And, it

turns out that they cashed my check anyway, and I need to send in a letter to request my money back. Couldn't they have simply sent the check back? Or better, make the electronic procedure a little more reasonable. After thinking about filling out the cryptic forms and sending out another check, I decided that KD5CMN wasn't so bad after all. Anyway, it's time to deal with that 1040 form (along with several others). Does this qualify me for a membership in the Whiners organization?
73 de Mike KD5CMN (still)

Date: Sun, 19 Mar 2000 21:12:01 -0600
From: "Steve Yates, AA5TB" <aa5tb@swbell.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [66106] Re: HB: Low Phase Noise VFO
Message-ID: <003101bf921a\$1030c5a0\$2c763ed8@aa5tb>
MIME-version: 1.0
Content-type: text/plain; charset="iso-8859-1"
Content-transfer-encoding: 7bit

I don't totally agree with the general consensus regarding HF phase noise either. I don't consider myself an expert on the subject though so take it for what it is worth. I'm sure I will be enlightened :-)

I have learned (or brain washed into thinking) that poor phase noise performance of a local oscillator in a HF receiver can spoil the steep selectivity curves of an otherwise very nice crystal filter. Sure, the HF bands all ready have a high natural noise level but this is besides the point. High phase noise can manifest itself as a rise in noise floor when listening next to a strong signal that is just outside of the passband. This could easily mask a weak QRP signal you are trying to listen to.

Ask any top notch contester that is used to DXing on crowded contest bands with a big gun antenna and they will tell you that receiver phase noise performance is important.

Phase lock loop systems are not the cure to the phase noise problem. In fact, they are often the source of the problem. Phase noise and sideband noise (often used interchangeably) and be multiplied throughout the loop. Proper design can easily reduce these effects and modern PLL systems I believe are inherently quite. Many systems nowadays use DDS (Direct Digital Synthesizer) and these systems can have a lower phase noise then a PLL system but don't guarantee it.

In many of our QRP rigs that use crystal oscillators (or VXOs) for the LOs probably aren't much of a problem as far as phase noise is concerned. I

don't think the average homebrewer has to worry about phase noise but I also don't think it can be ignored if one is trying for a very high performance receiver. Measuring phase noise is beyond the scope of most amateurs but a knowledge of what causes phase noise problems may avoid pitfalls in high performance receivers.

I believe the present disagreement arises from the fact that in most homebrew equipment phase noise is NOT a problem but in a complex all band high performance receiver it is an issue. Luckily, it is an issue that most manufacturers take into consideration, even if they may exaggerate the importance of ultra-low, unmeasurable phase noise.

73,
Steve Yates - AA5TB
Fort Worth, TX - EM12gs
<http://home.swbell.net/aa5tb>

Date: Sun, 19 Mar 2000 21:10:51 -0600
From: "Frank Krozel" <frank@electronicinstrument.com>
To: <wb5rue@stic.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [66107] Re: WWVB Status
Message-ID: <001301bf9219\$e6d01ee0\$24bbdccb@kg9h>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I was not aware that Radio Shack sold a WWVB receiver.
Is it WWVB (60Khz) or WWV (10Mhz, etc????)
Frank Krozel
KG9H
website: <http://www.Electronicinstrument.com>

----- Original Message -----
From: Kevin Muenzler WB5RUE <wb5rue@stic.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Sent: Sunday, March 19, 2000 8:36 PM
Subject: RE: WWVB Status

> Thought I'd check it out. I reset my Radio Shack "atomic clock" and within
> a couple of minutes it had the right time. So yes, WWVB is up and running.

>
> Kevin, WB5RUE
>
> > -----Original Message-----
> > From: owner-qrp-1@Lehigh.EDU
> > [mailto:owner-qrp-1@Lehigh.EDU]On Behalf Of
> > Frank Krozel
> > Sent: Sunday, March 19, 2000 11:00 AM
> > To: Low Power Amateur Radio Discussion
> > Subject: Re: WWVB Status
> >
> >
> > WWVB (60Khz) is very much in operation...
>

Date: Sun, 19 Mar 2000 22:26:38 EST
From: AdamN7YA@aol.com
To: qrp-1@lehigh.edu
Subject: [66108] Re: Congratulations are Not in Order
Message-ID: <48.2fba663.2606f46e@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

In reality, im already sick of the grumps...i dont care if they like it or not, im not giving the damn thing back so deal with it!!! i 'earned' it just like everyone else did so there.....those who dont like it, meet my delete button...i really dont care, i really AM having a blast and im not hurting anyone....>pffft< ::throws hands in the air over the whole stupid thing and turns the rig on:: Enjoy the hobby or dont...its your choice, but dont expect me to feel less than anyone for becoming an extra after the 1950's....im not sorry for that! :-)

expect no other traffic from this screen name on this on the list...i DO apologize to the new extras for the less than rosy welcome some are giving....aaaargh, i better stop typing now, im getting torqued! see you in the subbands.....

72/73/74...Adam, N7YA
Las Vegas, NV...Zone 03
QRP-L #1608, SOC #143, Y Guy #2
Code Warrior #76, Hamusician #1

Date: Sun, 19 Mar 2000 22:35:14 EST
From: AdamN7YA@aol.com
To: qrp-l@lehigh.edu
Subject: [66109] my apologies
Message-ID: <78.2d913e8.2606f672@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Listen, i apologize to the list for ranting like that...ive had a long day, and this topic just burns my seat. i usually try to refrain from posting a rant but i let it get to me. I just got back from a memorial for yet another friend of mine in UT....so im sorry once again to the unwilling recipients.

72/73/74...Adam, N7YA
Las Vegas, NV...Zone 03
QRP-L #1608, SOC #143, Y Guy #2
Code Warrior #76, Hamusician #1

Date: Sun, 19 Mar 2000 22:31:52 -0500
From: mikemo@attglobal.net
To: qrp-l <qrp-l@lehigh.edu>
Subject: [66110] <Help> Repairing old military generator
Message-ID: <38D59BA8.77285005@attglobal.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I was wondering if any of my qrp-l friends could help me out with this. I rescued an older (1963) gasoline generator from the trash. Was working for the previous owner until it spun the crankshaft off at the flywheel. I'd like to resurrect it if possible. I'm guessing that I can either get a replacement crankshaft, or find a really good machinist to try to repair it.

The question is, does anyone know of a person or group who might have access to spare parts to such old equipment?
The generator is a Hol-Gar model CE-015-AC (FSN 6115-887-8644), 1.5KW gasoline generator, US Army issue. The engine is a Continental Motors Corp. military standard model 2A016-II (FSN 2805-714-8553), 2 cylinder 4 stroke 16 cubic inch 3 HP.

If not, does anyone know a machinist who can fix a broken crank shaft on a 3HP motor?

Thanks very much. OBQRP, this could run the air conditioner in the QRP

tent on field day (gets hot here in Florida in the summer ;-)
Regards,
Mike Maiorana, KU4QO

Date: Sun, 19 Mar 2000 22:55:59 -0500
From: "Nick Yokanovich" <k3ny@toad.net>
To: <secondclassopsclub@egroups.com>, "QRP List" <qrp-l@Lehigh.EDU>
Subject: [66111] Re: [secondclassopsclub] Garfield
Message-ID: <013f01bf9220\$37044a20\$ebbc21a2@default>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Dan W. Dooley wrote:

> Anyone checked out the opening panel of Garfield today?
>
> Not too sure about the (R) symbol however.....
>
Looks like Garfield is using Morse's 1844 code.
You can see W.K. Dunbar's comparison of various codes
at http://members.tripod.com/morse_telegraph_club/images/codes.gif
and see many other interesting links from the home page at
http://members.tripod.com/morse_telegraph_club/ . The
Information Booth link there has tons of information about
telegraphy.
73, Nick K3NY
SOC #348

Date: Sun, 19 Mar 2000 23:01:04 -0500
From: "Nick Yokanovich" <k3ny@toad.net>
To: <secondclassopsclub@egroups.com>, "QRP List" <qrp-l@Lehigh.EDU>
Subject: [66112] Re: [secondclassopsclub] Garfield
Message-ID: <014601bf9220\$eae13620\$ebbc21a2@default>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

By the way, the 1844 code is one of the few to have
an exclamation point (dah dah dah dit). This useful

character has dropped by the wayside. How about
bringing it back? We could use it in phrases like,
"I unknowingly just sent you a virus! Don't open it!"
Nick K3NY
SOC #348

Date: Sun, 19 Mar 2000 23:17:31 -0500
From: "T.J. \"SKIP\" Arey N2EI" <tjarey@home.com>
To: "qrp-1@Lehigh.EDU" <qrp-1@Lehigh.EDU>, adamsdm@lewiston.com
Subject: [66113] RE: You know you are a homebrewer when
Message-ID: <38D5A65B.AE834451@home.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Guilty on all counts!!!!

Wow...I've never heard it better described. Thanks Don.

>
> You know you are a homebrewer when:
> 1. A toroid suddenly looks like a toaster element.
> 2. You leave the component leads long just in case you need the
> parts for another project.
> 3. You short out a resistor because you forgot to remove the
> solder splatters from your workbench.
> 4. You adjust VFO frequency by squeezing or separating toroid
> winds.
> 5. You have 37 holes drilled in the bottom of your project's box
> instead of the necessary 8.
> 6. You have almost all of W1FB's books and miss him dearly.
> 7. Wires attached to your circuit board break off due to too
> much flexing.
> 8. You have a sock with a blob of solder permanently attached.
> 9. The radios that work the best look the worst.
> 10. The schematic you started with doesn't match the circuit you
> ended up with.
> 11. A friend who lives a few miles away tells you that your signal
> sounds fine on 7040 kHz, 14080 kHz, and 21120 kHz.
> Don
> KJ7NJ
> (all thumbs in
> Idaho!)

--

+++++

T.J. "SKIP" AREY N2EI e-mail tjarey@home.com

Website <http://members.home.net/tjarey>

Snail Mail: PO Box 236, Beverly, NJ 08010

Specialization is for insects! LAZARUS LONG

Date: Sun, 19 Mar 2000 23:22:59 -0500
From: KD1YV <kd1yv@mindspring.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [66114] Re: [secondclassopsclub] Garfield
Message-ID: <38D5A7A3.85C54755@mindspring.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Sorry to report, but apparently my local paper (which is a real rag anyway) cuts off the "opening panel". The first one on my Garfield is the "SLAM!".

--

72/73 de Jim, KD1YV
If things get any better, I may have to hire someone to help me enjoy it

Nick Yokanovich wrote:

>
> Dan W. Dooley wrote:
>
> > Anyone checked out the opening panel of Garfield today?
> >
> > Not too sure about the (R) symbol however.....
> >
> Looks like Garfield is using Morse's 1844 code.
> You can see W.K. Dunbar's comparison of various codes
> at http://members.tripod.com/morse_telegraph_club/images/codes.gif
> and see many other interesting links from the home page at
> http://members.tripod.com/morse_telegraph_club/ . The
> Information Booth link there has tons of information about
> telegraphy.
> 73, Nick K3NY
> SOC #348

Date: Sun, 19 Mar 2000 21:28:17 -0700
From: Ray Colbert <af852@rgfn.epcc.edu>
To: qrp-l@lehigh.edu
Subject: [66115] Re: my apologies
Message-ID: <38D5A8E1.4C693FC7@rgfn.epcc.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

None needed in my opinion, Adam. You said it as it is and that was that. And hopefully the thread will go away. Those that think the tests are not difficult should become VE's and trainers and they will see just how hard the people are trying to get their tickets. And those sessions that DO have irregularities are being dealt with by the FCC, as they should. My keyer has a speed control which goes way below 5 wpm-difficult for me to concentrate at that speed, but to help someone in a qso is the main thing, and the encouragement helps the other operator gain confidence and consequently improvement. Likewise, the weights on my 1912 original can slow down to about 5 - 8 wpm. I look forward to the new operators and contacts with them.

73
Ray

--
"The more I see of the representatives of the people,
the more I admire my dogs."
letter from Count d'Orsay to John Foster 1850

Ray Colbert, W5XE, 00TC#3618, SOWP#1064M NARTE-NCT2 SOC#78
(also w5xe@juno.com) ARRL VE, El Paso, (FAR WEST) TEXAS

Date: Sun, 19 Mar 2000 22:47:49 -0600
From: "ukii" <ukii@megsinet.net>
To: <qrp-l@lehigh.edu>
Subject: [66116] VE Badge
Message-ID: <00a101bf9227\$7981e900\$fcd2d6d8@ukii>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello Gang...

Well, after much reading on this "Congrats are not in order" deal, I have to shoot my mouth off too.

I don't like the new rules and VERY MUCH dislike the way the ARRL went about putting the news to us.

In protest, I have CUT up my VE Badge.

I relinquish my VE Accreditation in hopes (futile as it is) that if no one will administer the exams, the FCC will get the picture and change it back.

Fat Chance I know, but I rather take action than just rant, Pro or Con, about the subject.

Anyway,

When is the next kit coming out and what is it gonna be???

Best 73 Everybody

john

N9UKX/RE (Real Extra!)

Date: Sun, 19 Mar 2000 22:59:20 -0600

From: "Bill Allen" <bill@pcatexas.com>

To: <qrp-1@Lehigh.EDU>

Subject: [66117] OT: That feeling of accomplishment

Message-ID: <003d01bf9229\$3345f380\$65bac1d0@ourtown.com>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Hi Gang,

I have been pondering comments of various sorts about the feeling of accomplishment with relation to exam taking whether of code or written type. While there was a certain feeling of accomplishment that I felt with the tests I have taken so far, none can compare with the feeling of accomplishment that I felt in constructing my first kit, setting up my antenna and other station equipment, and making my first CW contacts. Basically, I feel a much greater sense of accomplishment in the doing after getting the ticket than in the getting the ticket to do it. I realize that not everyone else gets their jollies off of the same things as me. I am finding that construction is what is really exciting to me. For some, I suppose, it is test taking. As far as I am concerned, the real test is in proving oneself to be a good op on the air. That all being said, I am looking forwards to seeing the ARRL's new program for furthering one's operating credentials and knowledge. Nothing wrong with that either if it encourages one to grow as a ham. :-)

73
KC5ADF
Bill Allen

Date: Mon, 20 Mar 2000 00:00:42 EST
From: GElam30092@aol.com
To: qrp-l@lehigh.edu
Subject: [66118] Re: my apologies
Message-ID: <3f.2448806.26070a7a@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

All the carping about the standards is interesting.

But, I'm not sure what those who advocate higher standards expects! Most of us are trying to be good operators and exceed standards somewhat above and beyond the FCC requirements. It is after all a hobby that we choose to participate in.

If you don't like the standards set, put your own in place Administer and charge for YOUR test at YOUR standards. Then set aside a published frequency where YOU can be found. When you find your world is a small and lonely place, feel free to join the rest of us as we try to have fun with this stuff! :-)

Cheers,
Gerry, K7LR0
PHX AZ

Date: Sun, 19 Mar 2000 21:08:29 +1200
From: David Kidd <ka7ozo@pacifier.com>
To: qrp-l@Lehigh.EDU
Subject: [66119] The change in everything but.....
Message-ID: <v03007802b4fa493cc33f@[198.145.232.77]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

There is no reason to get upset...there isn't a thing you can do about it.

It is still a hobby and that should mean fun. Things, and that includes ham radio, change all the time. It has been my experience since '83 is that the "old" doesn't want to accept the new whatever it is. The choice wasn't yours....but you will have to adhere to the changes and make the best of it.....so enjoy what we still have and be happy with what you can do.

Dave
KA70Z0

Date: Sun, 19 Mar 2000 23:30:01 -0600 (CST)
From: aweiss@usd.edu (Ade Weiss W0RSP)
To: qrp-l@lehigh.edu
Subject: [66120] 30's Wide Open -- VP6BR 106.8 up2
Message-ID: <200003200530.XAA13872@sunburst.usd.edu>

Hi gang:

The sun's been moving toward the equator and pushing those MUF contours up into ideal alignment for US-EU for the past two weeks!!! 30 is becoming UNREAL! Sooo ... saddle up and head for 30m to work EU DX -- piece of cake for you right coasters!

VP6BR -- Pitcairn Isl. sitting on 10106.8 listening up 2 for a while and going strong 56/79 here in SD at 0520. Alas, I worked him back on 2/25 so can't call him.

30m started picking up around 2/20 -- here with YL2GP, then UA3DEA, ES1WN on 2/23, LZ1QI, HR6/K7DBV, KL1SLE on 2/26; 2/27 was the start of the shift -- EU7SA, SM7DLZ, YL2GP, V51AS, & SM0CCE; LA0CX on 2/29 before heading to AZ for a week in the sun and F00AAA on Clipperton and ZK1XXC on 20m with the Viking 3x5 to my new S. Dakota Resonant Vertical for 20-30-40m.

Stuff picked up when I got back 3/13-17 w. EA6NB, ON7GB, P49V, UA1TET and F00CLA.

3/18 was almost like back in PA last May -- LA9VDA, SP7AWG, LY10TA, OK2BVG, F9KP, IK0YVV, SP2AJ0 who tailgated the IK0YVV QSO, SP1DPA (answered my 4x3 CQ DX!), and F5LMJ. HI9/DL7DF and ES1WN on 3/19.

Tonight 3/20 (zulu) UX0UN, UR7GG, NL7SA, F5CWU, EA8/DL2DX, YL2DZ, EU7SA, EU6MM, S51DQ .. and last but not least --- tata -- G0SVX/QRP for a SOLID 2-way

QRP QSO from 0433-0459! Like, picking VP6BR out of a huge 5-kc pile-up is one thing, but to have another DX QRP'r come back to my CQ DX is like the ultimate QRP experience! Solid QSO with my Sierra and his HW-9 to a 40m Delta loop. Ian has a NORCAL 20 and 40a as well. This is the BEST.

Sooooo, saddle up like I said and hope to hear a bunch of you QRP'rs working your share of the upcoming 30m equinox bash!

72, Ade

Date: Mon, 20 Mar 2000 03:20:29 EST
From: AD6EZ@aol.com
To: qrp-l@lehigh.edu
Subject: [66121] What is "REAL"!
Message-ID: <d0.35b24c3.2607394d@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Guys & Gals,

It is time we got back to QRP and the fun of Amateur Radio. I have only been a ham for 2.5 years even though I have been interested in Amateur Radio since 1955. What finally got me to get off my butt and motivate me to get my ticket was the class of folks in our local radio club.

It was Field Day 1997 and I was welcomed into the group with open arms into a most friendly atmosphere. They didn't care whether I was a ham or just a guy off the street, which I was, that was just wondering what the heck they were doing out there in that field. It was their acceptance of me that moved me to finally become a ham. I knew that I wanted to be a part of this group and if I could have some fun with ham radio that would be great!

I sure was lucky that that all happened before there were "Real Extras" and "Not-So-Real" Extras. I would have just turned around and realized that there must have been a very good reason for not getting involved in the hobby in first place. Now I can't help but wonder how many potential hams will be Turned Off by all this "Real" and "Not Real" crap. Here is something to think about: For every Ham, no matter the license class, that says they did it the harder old way, there is another that can say that they did it the harder older way -- and who cares. Every time you comment or sign your email with "Real Extra" or "Real" anything -- you drive someone away from the QRP-L list and what is worse, maybe the hobby, too.

Please don't recruit potential Amateur Radio Operators with that attitude. Leave that work for folks that are more accepting and less arrogant -- folks

that don't feel that they are better than someone else because of this or that. A lot of Newbies are easily intimidated and need to be assured that they are not only welcomed but accepted as well. This holds true in any new situation -- can you remember your first day at a new school or at a new job?

So just let others handle the recruiting and training of new hams and the hobby will continue to grow and move on.

73 es God Bless de Denny AD6EZ <><
Goleta, CA

Date: Mon, 20 Mar 2000 20:36:49 +1100
From: aberkuta <aberkuta@shoal.net.au>
To: qrp-l@lehigh.edu
Subject: [66122] HB SW 20-20
Message-ID: <38D5F131.296C1502@shoal.net.au>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi all

Just a query if anybody has constructed a SW 20-20 using the FAR board and is willing to supply the value of the critical components, otherwise it is a dive into elmer 101 for inspiration.

Just realised that there is enough room in the new case to add an extra band to the SW 80/40.

72's Alex VK2XTX

Date: Mon, 20 Mar 2000 06:54:49 -0500
From: Peter_Simpson@ne.3com.com
To: qrp-l@lehigh.edu
Subject: [66123] Cutting PCB material
Message-ID: <852568A8.00411981.00@usboxmta.ne.3com.com>
Mime-Version: 1.0
Content-type: text/plain; charset=us-ascii
Content-Disposition: inline

A heavy duty paper cutter will work, too...for a while :-)

Peter, KA1AXY

Date: Mon, 20 Mar 2000 07:00:55 -0500
From: "Dieter \ (Diz\) Gentzow WB8QYY" <wb8qyy@cinci.rr.com>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [66124] OT:EAGLE from CADSOFT
Message-ID: <000701bf9263\$f2840860\$4f171d18@cinci.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Need some info....

Any of you CAD folks familiar with EAGLE from CADSOFT?
I'm looking for general info.

I downloaded and installed the LITE version. Looks like
it will allow you do design schematic AND layout a PCB 4" x 3"
FOR FREE :-)
<http://www.cadsoftusa.com/>

73 & "oo's" - Dieter (DIZ) Gentzow - WB8QYY
Loveland, Ohio (Clermont County - EM79ug) - near Cincinnati; 39.218N -
84.305W
SOC#8 FPqrp#-1 DL-QRP-AG#1454 QRP-L#1998 10-X#9389 CATT#26 K2#493
<http://home.cinci.rr.com/wb8qyy>

Date: Mon, 20 Mar 2000 06:33:01 -0600
From: Karl Kanalz <KKanalz@excel.com>
To: "'zeekzilch@juno.com'" <zeekzilch@juno.com>, Low Power Amateur Radio
Discussion <qrp-l@Lehigh.EDU>
Subject: [66125] RE: Congratulations are Not in Order
Message-ID: <2D343922E283D211945C0008C7A41B2A01A745EC@adntex01.adsn.dal.excel.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"

Who said the examinee ".... memorized answers to"
the amateur radio examination? Perhaps YOU did, Roger,

but that doesn't mean that *everyone*, or even a majority do it.

Be careful of sweeping, generalized statements that don't necessarily have a basis in fact.

Karl K - W8TIF
McKinney, Texas

-----Original Message-----

From: Roger J. Wendell [mailto:zeekzilch@juno.com]
Sent: Sunday, March 19, 2000 12:40 AM
To: Low Power Amateur Radio Discussion
Subject: Congratulations are Not in Order

QRP-L is not the place to be congratulating each other for having memorized answers to amateur radio examinations. We've been giving these licenses away for nearly two decades and it's only going to get worse in April. Advocating positive change is not "whining" and the time for that change is now.

WB0JNR
<http://www.rogerwendell.com>

Date: Mon, 20 Mar 2000 07:37:15 -0500
From: Hank Kohl K8DD <k8dd@arrl.net>
To: ukii@megsinet.net
Cc: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [66126] Re: VE Badge
Message-ID: <4.1.20000320071047.00bda100@192.0.0.6>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 10:47 PM 19-03-00 -0600, ukii wrote:
>Hello Gang...
>Well,after much reading on this "Congrats are not in order"
>deal,I have to shoot my mouth off too.
>
>I don't like the new rules and VERY MUCH dislike the
>way the ARRL went about putting the news to us.

I don't especially like the new plan either.

>In protest,I have CUT up my VE Badge.

>I relinquish my VE Accreditation in hopes (futile as it is)
>that if no one will administer the exams,the FCC will get the
>picture and change it back.

Just like your local school tax. Have you ever seen a school tax increase get rescinded? I believe that "fat chance" applies here regarding a reversal.

I had the same thought - after over 1000 VE exams, I quit. Then I thought about it. Why did they do this. They say to get more hams. Did the No-Code Tech get us a 50% increase of Hams? No! Will this? No!

Why? We, Amateur Radio, are more or less a "secret society". We, as a whole, don't advertise. Check out your local newspaper. Rotary, bible clubs, Lions, bird watching clubs, Optimists, computer clubs, Eagles, Photography clubs, hiking clubs, MADD, SADD, and on and on. You get the picture?

I travel a fair amount and read a lot of local newspapers and look at what's happening in these towns and counties. In the past year or two I've seen one radio club and it was a REACT club.

Who caused this last rules change that has caused Hams all over the country to go into attack mode? Hams did. We (I'm guilty too) did it to ourselves.

Disclaimer - I know that in a few areas there is good advertising. And some clubs do a fantastic job. (In Dayton, in May, most everyone knows what all those crazy guys with radios are!) But I'd bet it's only 5 or 10 percent of the clubs across the country. So if your club is one of the "advertisers", keep it up and hit your delete key on this one.

73 Hank K8DD

I got my drivers license when you had to drive a stick.....with a clutch. Does that make me a better driver? (Don't even think about asking my wife!!)

>Fat Chance I know,but I rather take action than just rant,

>Pro or Con, about the subject.

>Anyway,

>When is the next kit coming out and what is it gonna be???

>Best 73 Everybody

>john

>N9UKX/RE (Real Extra!)

>

*/ Hank Kohl K8DD k8dd@arrl.net
*/ ARRL TS http://www.tir.com/~k8dd
*/ MI-QRP - Vice Pres. QRP-ARCI - Director
*/
*/ Did you know you can email money with PayPal.com?
*/ Check this out:
*/ <https://secure.paypal.com/refer/pal=k8dd%40arrl.net>

Date: Mon, 20 Mar 2000 08:34:23 -0500
From: Bruce Muscolino <w6toy@erols.com>
To: wb8qyy@cinci.rr.com
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [66127] Re: OT:EAGLE from CADSOFT
Message-ID: <38D628DF.76BD@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Diz,

I have been using CIRCAD 98, for about six months now. It is also a free download. I don't think there are any limits to the board size, and it is very easy to use.

73

Date: Mon, 20 Mar 2000 08:55:50 -0500
From: "Vincent Ferme" <vferme@sprint.ca>
To: <qrp-l@lehigh.edu>
Subject: [66128] FS: MFJ 20M CW transceiver with MFJ keyer installed.
Message-ID: <000501bf9274\$0556cee0\$08766395@vince>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Manual for both. US\$100.00 shipped.

73 de Vince, VA3VF.

Date: Mon, 20 Mar 2000 09:04:59 -0500
From: John R Kirby <n3aaz-qrp@juno.com>
To: psk@host.n2ty.org, cestey@pclink.com, qrp-1@Lehigh.EDU
Subject: [66129] PSK31 / IC-706
Message-ID: <20000320.090604.-102313.0.n3aaz-qrp@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Hello Carl,

I use the IC-706 for PSK31. . .

For IC-706 / PSK31 transmit, there is a choice, either the accessory socket or the microphone connector, both have their advantage and disadvantage.

The accessory socket "modulator input" (pin-11, "MOD" on the Icom 706) is my choice because this is a "high level" port and computer "noise" has much less affect here. However on some rigs (my ICOM 706) this audio input pin is not VOX supported (controlled) so I must "key" the transmitter via the accessory socket PTT (pin-3, "HSEHD" on the 706). A simple "dry" contact switch will work (like a >SPST< single pole single through), short pin 3 to ground for "PTT".

CAUTION, be VERY CAREFUL if you connect a computer "PTT" line to the radio since the computer output pin may be RS-232 levels (PLUS **and** MINUS 12 volts either side of ground).

Your radio wants to see ONLY a "closure" to ground *not* RS-232 voltage levels.

A transistor (2N2222 or 2N3904) "open collector" interface circuit is required between the computer PTT and radio PTT in order to prevent damage to the radio and or computer.

There is such a circuit here...
>><http://www.psnw.com/~kd7s><<
See "RTTY with a Sierra"...
Figure 2, the PTT schematic.
No power supply is needed or required for this type of interface circuit.

Your second choice for PSK31 transmit is the radio "mic" jack. VOX works to key the transmitter and eliminates the PTT computer interface connection to the radio (but turn OFF all other speech processing, else

distortion). The mic port is a "low level" radio input and very susceptible to computer / radio frequency interference (RFI) "noise". You MUST INSTALL AN ATTENUATOR between the computer (high level) sound card output and the radio mic (low level) input port else you will not be able to adjust the audio transmit "tone level" low enough, therefore, distortion and splatter will result for sure. Remove the MIC and cable direct between the computer and radio. The G3PLX, PSK31 HELP file provides a circuit and several "water fall" splatter examples.

To receive, I use the "fixed" level audio output from the radio accessory connector (not the speaker or phones port) therefore the radio volume control setting does not affect RX "print" quality. You may need to adjust the "software" input level control to your sound card (receive side) for best weak signal (RST 1,1,9) conditions, this is only a one time adjustment since 599 signals are no problem.

HELP KEEP PSK31 CLEAN...

Please advise you contact of "splatter "
AND
gracious for such advice.

PSK31 is an ** OUTSTANDING ** weak signal mode. . .
2 way QPR QSOs @ 2,000 miles with 0.5 W : >))
>>4,000 miles per Watt<<

72 >QRP<
John
N3AAZ
FM19xa

On Sun, 19 Mar 2000 23:10:35 -0600 Carl Estey <cestey@pclink.com> writes:
>I have had moderate success using a Kenwood TS-440S/AT with a IBM
>365XD
>Thinkpad but am now trying to get ready for summer portable ops using
>a
>Icom IC-706 and an IBM 365XD Thinkpad. Has anyone had success with
>this or
>can you tell me about interfacing to an IC-706? My first attempt to
>use
>the rear-panel 13-pin connector on the ICOM caused the radio to go
>into TX
>whenever the patch cords were connected to the laptop. I am assuming
>this
>indicates the need to use transformers. Any ideas?
>
>Carl

YOU'RE PAYING TOO MUCH FOR THE INTERNET!
Juno now offers FREE Internet Access!
Try it today - there's no risk! For your FREE software, visit:
<http://dl.www.juno.com/get/tagj>.

Date: Mon, 20 Mar 2000 08:22:16 -0600
From: "Kevin Muenzler, WB5RUE" <wb5rue@stic.net>
To: "'Frank Krozel'" <frank@electronicinstrument.com>, "'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.EDU>
Subject: [66130] RE: WWVB Status
Message-ID: <000001bf9277\$b1f96ba0\$ef5d6f81@v8.uthscsa.edu>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

It's been six eight or ten months ago that I bought this thing. It was called their "Atomic Clock" and sold for \$39.95 on sale. It is missing one important thing, no UTC setting. It only has the North American time zones. I don't think it was very popular, it showed up in their 1998/1999 catalog and was discontinued in April of last year.

72/73
Kevin, WB5RUE
Leeniers? We dunt need no steenkeeng leeniers!
<http://www.qsl.net/wb5rue>

> -----Original Message-----
> From: Frank Krozel [mailto:frank@electronicinstrument.com]
> Sent: Sunday, March 19, 2000 9:11 PM
> To: wb5rue@stic.net; Low Power Amateur Radio Discussion
> Subject: Re: WWVB Status
>
>
> I was not aware that Radio Shack sold a WWVB receiver.
> Is it WWVB (60Khz) or WWV (10Mhz, etc????)
> Frank Krozel
> KG9H
> website: <http://www.Electronicinstrument.com>

Date: Mon, 20 Mar 2000 08:22:49 -0600
From: "Mike Besemer (KG8L)" <kg8l@worldnet.att.net>

To: "QRP Reflector" <qrp-1@lehigh.edu>
Subject: [66131] Penntek Electronics
Message-ID: <000001bf9277\$c7866360\$a52b6520@oemcomputer>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Does anybody know of Penntek Electronics is still around, and if so, do they have a web site. I'm looking for a circuit board for a neophyte receiver.

72,

Mike
KG8L

Date: Mon, 20 Mar 2000 09:42:35 -0500
From: "AI2Q Alex" <ai2q@ispchannel.com>
To: "QRP-L (E-mail)" <qrp-1@Lehigh.EDU>
Subject: [66132] 9K2GS my highlight
Message-ID: <000501bf927a\$88875860\$5c32a7d0@ispchannel.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

The highlight of 20-m operating this weekend was snagging 9K2GS (in a pileup no less) using my homebrew SSB transceiver at 3 W with the doublet. What great condx on Saturday night! Worked about 45 stations in Russia and EU.

Got to get the solar panel in place.

Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L 687 .-.-.

Date: Mon, 20 Mar 2000 10:01:49 -0500
From: Laura Halliday <va3ldh@sympatico.ca>
To: qrp-1@Lehigh.EDU
Subject: [66133] Re: HB: Low Phase Noise VFO
Message-ID: <38D63D5D.B2E4111D@sympatico.ca>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Bruce Kizerian wrote:

> You mean to tell me that phase noise is not an issue in HF receivers? I am
> looking into this for the purpose of building a VFO or synthesizer for the
> receiver design I am working on. It will use a Tayloe detector, which means
> the VFO or synthesizer must generate a signal at 4X the frequency to be
> demodulated. Phase does have an effect on a receiver's dynamic range
> performance. I have been looking into receiver design for a number of years.
> There is an abundance of literature to support this.

References, please. At HF phase noise is rarely an issue. If it is, it's
due to incompetent PLL design, or some *very* unusual design
requirements.

All the discussion I've seen (like in Rohde's book) assumes a PLL or
similar frequency synthesizer. They don't talk about phase noise in the
context of LC VFOs. Why?

The solution remains a VFO with an up-converter. Or a VXO and a
multiplier.

Or a summing-loop PLL. All of these have far better phase noise
performance

than the vast majority of commercial rigs, and certainly better than any
commercial amateur rig with a multiple-loop PLL synthesizer. Is this not
good enough for you? How good do you want? How good do you need?

> If reducing phase noise
> has no practical value then an NE602 should be adequate for all HF
> applications. I can't buy that...

I don't either. But phase noise has nothing to do with it. The NE602 has
very low power consumption and requires few external parts, but has less
dynamic range than other available mixers. If this tradeoff solves your
problem, use it. If it doesn't, don't. This has everything to do with
dynamic range, and nothing to do with phase noise.

> Does the noise on the band always mask receiver noise?

>

> > People didn't even measure phase noise years ago.

>

> Yes, and before that we used spark gap transmitters. New and useful parameters
> will show up in the future. Will they have any relevance to ham radio?

Sure. But they must actually affect how the radio works, on the air, in
actual use. If LO phase noise affects receiver performance to an extent
that it affects the receiver's ability to receive then you have a
problem.

If it doesn't, you don't. Just like sensitivity: if you can hear the

band
noise under your usual operating conditions, your receiver is as
sensitive
as it needs to be.

> > Laura is right here. What REMAINS a true concern and measure is the
> > stability of the oscillators we use on HF.
>
> Does that mean that concern about improving other parameters are "false
> concerns".

No. But they are not necessarily as desperately important as they are
routinely made out to be. Hams seem preoccupied with phase noise, when
there are far more important - and relevant - things to worry about.

> Laura, what happened to your numerous parts about using modern parts. If it
> wasn't for the hobbyist market the NE602 would be obsolete--it is just about
> everywhere else.

Do you have any sales figures?

NE/SA602 is available. It works. What more do you need? The fact that it
is
not always the best answer for a receiver front end does not detract
from
the zillions of other possible uses - I downloaded a Philips app note on
using the NE602 as an oscillator/multiplier (AN1983) the other day. I
see
possibilities for some of my microwave gear...

Just for fun I did a survey of the commercial radios in my shack (if you
build it yourself the design decisions are your own), and find 3 HF
radios
with variations on PLLs, DX-380, TS-120V, FRG-7 (multi-loop PLL, summing
loop, Wadley loop, respectively), and one with an LC VFO with, in
effect,
a crystal controlled up-converter (51J-4 - yep, a hollow-state radio!).

Not one shows any issues relating to phase noise. All show effects due
to
finite dynamic range. A couple have frequency stability issues until
they have warmed up.

--

Laura Halliday VA3LDH "Laisse le vent tout emporter..."
Grid: FN03gs - Foly/Viennet

Date: Mon, 20 Mar 2000 10:39:43 -0500
From: "Hare, Ed, W1RFI" <w1rfi@arrl.org>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [66134] RE: QRP to the Field 2000 Rules
Message-ID: <125490A005E3D3118C9C00805FC743CC3E178A@mail.arrl.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

I notice in QST "Contest Corral" that QST seemed to have reprinted last year's announcement and theme, with the wrong dates. I will inform the editor.

73 from ARRL HQ,
Ed Hare, W1RFI
ARRL Laboratory Supervisor
225 Main St.
Newington, CT 06111
860-594-0318
Internet: w1rfi@arrl.org
ARRL Web: <http://www.arrl.org/>.
ARRL Technical Information Service: <http://www.arrl.org/tis>.

-----Original Message-----
From: J. Medley [mailto:jmedley@ix.netcom.com]
Sent: Saturday, March 18, 2000 5:08 PM
To: Low Power Amateur Radio Discussion
Subject: QRP to the Field 2000 Rules

QRP To The Field 2000 -- Water World

Date: Saturday, April 29, 2000
Time: 1500 to 2400 UTC (pick any 6 hours)
Bands: 40-20-15-10 meters, in the vicinity of the QRP calling frequencies, please be courteous to others
Mode: CW only
Power out (QRP only): 5 watts or less

The theme for this year is to get outside and get as close as possible to a water location! Sorry...bathtubs, toilets, sinks, leaky plumbing, water bottles and the like don't count. Just about everyone has a nearby location that involves some kind of lake, pond, river, canal, ditch, whatever! If you can't get away to be near the water, then set up out in your back yard or on the back porch and be a field station. The whole idea of QRP to the

Field is to get outside and operate! So pack a lunch and get out there. Let's have some fun! A note of seriousness here. Please keep your personal safety in mind, especially Marine Mobile stations. Don't attempt to go out on the water before the fog has cleared, and please don't stay out on the water after dark. We want to have everybody around for next year too. So use a little common sense and please obey the laws governing your location. Select any 6-hour operating period that works for you. If you need to split it up into two or three hour intervals to accomodate other plans, then do so. Jump in there when you can, but only work a total of 6 hours.

Categories: Marine Mobile (MM) - must submit photograph of operating position! Whether you're on a ship, canoe, kayak, raft, innertube or what have you....if you are afloat, then you're marine mobile. DO NOT sign /MM after your callsign, it will be part of the exchange.

Ocean (OC) - must submit photograph of operating position!
This category also includes the Great Lakes and the gulf, cuz those babies are huge!

Other water (WT) - inland lakes, rivers, streams, park ponds, ditches, canals, etc.

Field station (FD) - any station that is outdoors and not using commercial power or fixed antennas.

Home station (HO) - any station that is operating from an indoor or home location.

Exchange: RST + SPC + Category identifier (two letters)
Example: 559 NM WT

Scoring: 25 pts - for each MM station worked per band
20 pts - for each OC station worked per band
15 pts - for each WT station worked per band
10 pts - for each FD station worked per band
5 pts - for each HO station worked per band

SPCs: count once per band

Location Multipliers: MM = x5
OC = x4
WT = x3
FD = x2

H0 = x1

Final Score: Total pts x Total SPC x Location = Final score

A summary sheet is available at the Norcal web site:
<http://www.fix.net/~jparker/norcal.htm>

Deadline: Send complete logs and summary sheets by June 1, 2000
Summary sheets must include a description of location and equipment used; also include photographs where indicated above. Pictures must show your station location and the water in the same field of view. Your log should include a minimum of time (in UTC), callsign of station worked, complete exchange received, RST sent (if not a static exchange). Incomplete submissions will be used as check logs.

Email submission (except MM & OC stations): send complete logs and summary sheets in ASCII text format only to:

n0qt@arrl.net

Please send text format only, all other forms will be rejected so no html, word processor documents or attachments please.

Snail mail (including MM & OC stations): send complete logs and summary sheets and photos to:

Jan Medley N0QT
QRPTTF 2000
P.O. Box 1768
Socorro NM 87801

Date: Mon, 20 Mar 2000 10:54:44 -0500
From: "Craig A. Ferris" <cferris@aeronix.com>
To: qrp-1@Lehigh.EDU
Subject: [66135] SWAP: Randy Henderson xcvr boards+book for SWL
Message-ID: <38D649C4.A77E9B82@aeronix.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Looking for a transceiver from Small Wonder Labs, built or not, working or not, with documentation. Will consider all bands/models. Please

reply direct.

72,
Craig
NR4E

Date: Mon, 20 Mar 2000 10:57:32 -0500
From: neil tanner <ntan@crosslink.net>
To: "qrp-1@Lehigh.EDU" <qrp-1@Lehigh.EDU>
Subject: [66136] re:epiphyte
Message-ID: <38D64A6C.C4FE06BC@crosslink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Just wanted to thank all who replied to my question concerning the
epiphyte...72 Neil WA4CHQrp
<http://www.qsl.net/wa4chq/>

Date: Mon, 20 Mar 2000 09:02:09 -0700
From: Bruce Kizerian <kizerian@ced.utah.edu>
To: va3ldh@sympatico.ca, qrp-1@Lehigh.EDU
Subject: [66137] Re: HB: Low Phase Noise VFO
Message-ID: <38D64B81.A31D9C9D@ced.utah.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Laura Halliday wrote:

> Bruce Kizerian wrote:
>
> > You mean to tell me that phase noise is not an issue in HF receivers? I am
> > looking into this for the purpose of building a VFO or synthesizer for the
> > receiver design I am working on. It will use a Tayloe detector, which means
> > the VFO or synthesizer must generate a signal at 4X the frequency to be
> > demodulated. Phase does have an effect on a receiver's dynamic range
> > performance. I have been looking into receiver design for a number of years.
> > There is an abundance of literature to support this.

>
> References, please.

It sounds like you have already read most of them. I will see what I can find in my files.

> At HF phase noise is rarely an issue. If it is, it's
> due to incompetent PLL design, or some *very* unusual design
> requirements.
> All the discussion I've seen (like in Rohde's book) assumes a PLL or
> similar frequency synthesizer. They don't talk about phase noise in the
> context of LC VFOs. Why?

and maybe I used the term VFO in too generic of a sense. I intend to use a clean, stable VFO and some kind of up converter. The Tayloe detector requires approx. 120 MHz input to operate on 10 meters.

> The solution remains a VFO with an up-converter. Or a VXO and a
> multiplier.
> Or a summing-loop PLL. All of these have far better phase noise
> performance
> than the vast majority of commercial rigs, and certainly better than any
> commercial amateur rig with a multiple-loop PLL synthesizer. Is this not
> good enough for you? How good do you want? How good do you need?
>

This will be good enough. I "need" moderately low phase noise--not -160dBc/Hz.

> > If reducing phase noise not
> > has no practical value then an NE602 should be adequate for all HF
> > applications. I can't buy that...
>
> I don't either. But phase noise has nothing to do with it. The NE602 has
> very low power consumption and requires few external parts, but has less
> dynamic range than other available mixers. If this tradeoff solves your
> problem, use it. If it doesn't, don't. This has everything to do with
> dynamic range, and nothing to do with phase noise.

Okay, I used a bad example here. Sorry.

> > Does the noise on the band always mask receiver noise?

> Sure. But they must actually affect how the radio works, on the air, in
> actual use. If LO phase noise affects receiver performance to an extent
> that it affects the receiver's ability to receive then you have a
> problem.
> If it doesn't, you don't. Just like sensitivity: if you can hear the

> band
> noise under your usual operating conditions, your receiver is as
> sensitive
> as it needs to be.
>

And the lower the frequency, generally, the less important phase noise is. Is that correct?

> > > Laura is right here. What REMAINS a true concern and measure is the
> > > stability of the oscillators we use on HF.
> >
> > Does that mean that concern about improving other parameters are "false
> > concerns".

>
> No. But they are not necessarily as desperately important as they are
> routinely made out to be. Hams seem preoccupied with phase noise, when
> there are far more important - and relevant - things to worry about.

My experience that most hams are not preoccupied with phase noise or any aother measurement--typically, they just want knobs to turn and buttons to push. I find myself lured in that direction from time to time.

Phase noise is not the only parameter I am curious about. It is just the one that puzzles me the most at this time.

>
> > Laura, what happened to your numerous parts about using modern parts. If it
> > wasn't for the hobbyist market the NE602 would be obsolete--it is just about
> > everywhere else.
>
> Do you have any sales figures?

Nope, you got me there.

> NE/SA602 is available. It works. What more do you need? The fact that it
> is
> not always the best answer for a receiver front end does not detract
> from
> the zillions of other possible uses - I downloaded a Philips app note on
> using the NE602 as an oscillator/multiplier (AN1983) the other day. I
> see
> possibilities for some of my microwave gear...
>

Don't get me wrong I have used the NE602 for several different applications. They certainly are useful and fun to play with.

Thanks for responding, Laura--hope I didn't anger anyone. I am curious about a lot of design issues. Help from you and others is appreciated.

Bruce kk7zz

Date: Mon, 20 Mar 2000 08:02:28 -0800
From: Ed Loranger <we6w@qsl.net>
To: Randy Foltz <rfoltz@turbonet.com>, Ed Loranger <we6w@netzero.net>, Barney Waldrop <cbrlwaldrop@pullman.com>, nw7dx <BenNW7DX@aol.com>, Dan <ad6jy@aol.com>, Randy <t-ranch@humboldt1.com>, Wayne <NB6M@mer.win-net.org>, Bill <lite65@earthlink.net>, Dave N6RZ <drowley@writeme.com>,
Subject: [66138] QRQ Net Report.
Message-ID: <38D64B94.B7F28672@qsl.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

The QRQ net saw 4 of us last night and many email reports from listeners who continue to enjoy listening while we have fun.

QNI's:
WE6W, NW7DX, K7TQ, W7IHN.

The big kicker, and a call to congratulations belongs to Randy/K7TQ who had been stuck at 34 WPM for some weeks now. Not any more. Randy pulled out the governor and ran it all the way up to 44 WPM. Way to go, Randy.

Ben hit 76 WPM on his keyer, I got to 62 on the Lightning bug borrowed from Bill/KF6RMK/AG, and Barney/W7IHN hit 32 wpm.

The sending of one practice sentence when in the 22-29 WPM, 2 sentences from 30-39, and all 3 sentences when at the 40+ range seemed to be well received. We quickly marched into the 30's and it was a nice reward at 40 wpm to have 3 sentences to work with.

Hope to hear reports from listeners and future check-ins.

Sundays, 7039 KHz, 7:00 PM PST, (0300Z)

--

72/Ed we6w; A-1 OP; SOC#63; QRPL#1068
http://www.qsl.net/we6w Santa Rosa, CA
Brain, only as strong as its weakest think.

Date: Mon, 20 Mar 2000 09:06:45 -0700
From: Pat Byers <pbyers@rttinc.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>, Multiple recipients
of list QRP-CANADA <qrp-canada@lists.gpfn.sk.ca>
Subject: [66139] WTB: Cushcraft R5
Message-ID: <4.2.0.58.20000320090227.009b61a0@127.0.0.1>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Hi all,

I'm looking for a Cushcraft R5 to replace my R4. My R4 has performed well
but it doesn't cover the 17m band.

Please reply direct.

Thanks and 73,

Pat Byers VE6AAN

Date: Mon, 20 Mar 2000 08:42:41 -0800 (PST)
From: Jeff <fantbb@yahoo.com>
To: qrp qrp <qrp-l@lehigh.edu>
Subject: [66140] Kudos to LDG
Message-ID: <20000320164241.17636.qmail@web115.yahoomail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

I mentioned on the list earlier that my LDG AT-11 tuner did not work
very well and I wasn't very happy with it. LDG emailed me and said
that I could send it in and they'd take a look at it. They want to
have happy customers. I thought that was a great thing to do and I
wanted to pass that on to the list. So my AT-11 will shortly be off
to LDG and hopefully it will be work much better when I get it back.
Like it when companies take an interest in their customers.

jeff

=====

Jeff Jones
AB6MB
NorCal QRP Club #65, QRP-L #1780, ARCI 10071
Radical FIST Member 6798
Voicemail/Fax 1-888-Excite2 ext 925-439-2514
ICQ 62450117

Do You Yahoo!?
Talk to your friends online with Yahoo! Messenger.
<http://im.yahoo.com>

Date: Mon, 20 Mar 2000 11:45:20 -0500 (EST)
From: lujce@Lehigh.EDU
To: qrp-l@lehigh.edu
Subject: [66141] WAY OFF-TOPIC TOPICS
Message-ID: <200003201645.LAA80914@nss4.cc.lehigh.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Gang,

Topics such as band plans, no code/slow code, question pools, restructuring, and other regulatory matters don't belong here. Take these discussions elsewhere, like rec.radio.amateur.policy. I have and will continue to kill these topics.

73
Jim N3VXI

Date: Mon, 20 Mar 2000 11:11:40 -0600
From: Gary Lee Phillips KA9NZI <ka9nzi@arrl.net>
To: qrp-l@Lehigh.EDU
Subject: [66142] Re: [secondclassopsclub] Garfield
Message-ID: <38D65BCC.1DA398E7@arrl.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Yep. Garfield's code (and his key, I think) are railroad telegrapher issue, American Morse style. I puzzled over the connection with

the strip, but there doesn't seem to be any. I seem to vaguely recall that the same opening panel has been used before. Of the letters shown, R and L are different from our familiar International Morse. Those who don't know American Morse may be interested to learn that it had "spaces" inside some letters, and "dashes" of more than one length. Now there's a challenge for all those extras who think they are superior from having passed 20 wpm International Morse.

-- Gary Phillips, Marengo, IL <mailto:ka9nzi@arrl.net>
KA9NZI, Seneca Twp., McHenry Co., IL Grid: EN52rg
QRP-ARCI #5154 <http://www.netcom.com/~fuffle/>

Date: Mon, 20 Mar 2000 11:23:03 -0600
From: "Cla KA0GKC" <ka0gkc@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [66143] Re: HB: Low Phase Noise VFO
Message-ID: <007001bf9291\$28930460\$0200000a@aplitech>

Ok I admit it, I don't know a lot about phase noise and I bow to Laura's wonderful knowledge and respect her opinion above most if not all. Needless to say I do have an opinion on phase noise as it relates to HF receivers. If I didn't I wouldn't have wrote this!

The question here is not whether phase noise makes a difference in HF receivers, it does. (Period) The question is to what extent and if it's significant. Well that all depends on what you are trying to achieve in a receiver design. As I understand the effects of phase noise, and remember I'm on a limb here, it will add to the noise figure of your receiver mixer and worsen your MDS and the dynamic range. It does this by producing low level nearby mixer products in the baseband of your IF or audio in the case of a DC receiver. This can be very significant if you are using a frequency generating technique that produces a lot of phase noise or you are designing a receiver to really pull out the weak signals during those rare quiet moments on HF. I would also think that the effects of "X" amount of phase noise would be greater in a phasing receiver than other designs. But this is only my assumption and not based on any study or experiment.

The bottom line is this. If you use a well designed and established frequency generating technique, phase noise at HF doesn't really become an issue. It's way, way down on the list of concerns. It's a good thing to know about but in most all cases does not need to be considered when building HF receivers.

Corrections to the above gladly accepted, that's how I learn stuff too.

73 de KA0GKC Claton Cadmus

ka0gkc@arrl.net

MNQRP #1

Minnesota QRP'ers we're looking for you!

Email me or visit this page <http://www.qsl.net/mnqrp>

Date: Mon, 20 Mar 2000 12:28:15 EST

From: Rod Johnson <ka7you@juno.com>

To: QRP-L@LeHigh.EDU

Subject: [66144] HB?:Batteries

Message-ID: <20000320.094459.2375.25.ka7you@juno.com>

Just a short note to remind you all to check your battery connections regularly if you are using flooded lead acid batteries.

I have a \$15 Harbor Freight "Battery Maintainer", which works very well---until the dreaded 'gob of grey/green gunk' builds up on the terminals, eats the clamp, and the charger clamps fall off.

I'm sure that I checked them just a few weeks ago....or was that just after the summer operating was done.. or just before field day?

Anyway, check them, clean them, grease them and while you're at it add some water if needed; at least quarterly.

They will reward you for it. Mine are a pair of eight year old batteries that I pulled out of the RV several years ago, and except for this sudden failure of the connections, have been very reliable as shack batteries. Of course they don't need much capacity for the occasional casual operating I do, but they run the VHF/UHF SSB gear just fine too.

7 3,

Rod Johnson KA7YOU from grid CN97AK near Issaquah, Wa.

80M thru 10M with K2 s/n268 and other fine QRP rigs.

VHF thru 1296 MHz-higher bands pending

ARCI-QRP #7251 QRP-L #844 NWQRP #120 NorCal #2007 SOC#184 and others

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<http://dl.www.juno.com/get/tagj>.

Date: Mon, 20 Mar 2000 10:39:11 -0700

From: "Mugleston, Brad" <brad.mugleston@gwl.com>
To: cqclist <CQC@FRAN.CHISP.NET>, qrp-l <qrp-l@lehigh.edu>
Subject: [66145] Grand Junction Colorado
Message-ID: <F9645092A142D3118CBD00805F15292E072A42A7@eb-mail1.gwl.com>
MIME-Version: 1.0
Content-Type: text/plain

I have the opportunity? to spend some time with my in-laws early April in Grand Junction Colorado (Beautiful Place, it really is). I was wondering if there is anyone that lives there that may know of RADIO things to do (ham fest, junque stores, testing sessions - anything).

Please Reply direct to save band width.

de KI00T, Brad

Date: Mon, 20 Mar 2000 12:14:12 -0600
From: "Mike =?ISO-8859-1?Q?N=D8WDM"?= <michaelbstjames@email.msn.com>
To: "qrp reflector" <qrp-l@Lehigh.EDU>
Subject: [66146] Re: Spider questions
Message-ID: <000101bf9298\$1b2bc1c0\$5b390b3f@default>

Once again

Thanks to everybody who helped out
with my Spider transceiver questions.

Even when OT, this is a great group!

Mike in Minnesota

Date: Mon, 20 Mar 2000 13:28:41 -0500
From: Pete Burbank <plburbank@kih.net>
To: <qrp-l@Lehigh.EDU>
Subject: [66147] Re: [secondclassopsclub] Garfield
Message-ID: <3.0.32.20000320132838.0068589c@kih.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 11:11 AM 3/20/00 -0600, you wrote:

>Yep. Garfield's code (and his key, I think) are railroad telegrapher
>issue, American Morse style. I puzzled over the connection with
>the strip, but there doesn't seem to be any. I seem to vaguely recall
>that the same opening panel has been used before. Of the letters
>shown, R and L are different from our familiar International Morse.
>Those who don't know American Morse may be interested to
>learn that it had "spaces" inside some letters, and "dashes" of more
>than one length. Now there's a challenge for all those extras who
>think they are superior from having passed 20 wpm International
>Morse.

>

>-- Gary Phillips, Marengo, IL <mailto:ka9nzi@arrl.net>
> KA9NZI, Seneca Twp., McHenry Co., IL Grid: EN52rg
> QRP-ARCI #5154 <http://www.netcom.com/~fuffle/>

>

Gary,

A statement like "all those extras who think they are superior"
is not a good way to make friends.

Pete NV4V

Date: Mon, 20 Mar 2000 10:40:02 -0800
From: Anthony Felino <anthony@pacinfosb.com>
To: qrp-l@Lehigh.EDU
Subject: [66148] Re: QRP-L digest 1764
Message-ID: <Chameleon.953578135.anthony@anthony-400>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; CHARSET=ISO-8859-1

thom-k3hrn wrote:

"I've noticed that when the swr is lowest with my tuner/antenna it does not
correspond to maximum field strength with a remote FS meter. So, should I
tune for maximum FS or lowest SWR ? The differences are a 1.3/1 yields a
higher Field Strength than a 1.0/1."

Two things come to mind:

1) Depending on where your FS meter is, you may be seeing radiation from the
feedline with higher SWR,

2) Most transmitters do not have a true output impedance of 50ohms, that's just
the design Z for a specific rated power. In reality, the transmitter may
be more like a voltage source (within limits) such that the transmitter puts out
more power into a lower impedance load. You may be tuning to, say, 30 ohms, which
will show a mismatch compared to 50ohms (which is what your SWR meter measures,) but
will allow the transmitter to put out more power. The transmitter might not like

it
for extended periods, though. See if it gets hot.

73, WN6Q

Anthony Felino, Pacific Information Design
email: anthony@pacinfosb.com
telephone: (805) 730 1565, x25

Date: Mon, 20 Mar 2000 14:02:18 -0500
From: Laura Halliday <va3ldh@sympatico.ca>
To: qrp-1@Lehigh.EDU
Subject: [66149] Re: HB: Low Phase Noise VFO
Message-ID: <38D675BA.6CF11DB4@sympatico.ca>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Cla KA0GKC (ka0gkc@arrl.net) wrote:

> The bottom line is this. If you use a well designed and established frequency
> generating technique, phase noise at HF doesn't really become an issue. It's
> way, way down on the list of concerns. It's a good thing to know about but in
> most all cases does not need to be considered when building HF receivers.

Yes. That's how I would put it too. After you have high dynamic range,
good
selectivity, stable tuning and quality audio, then, and only then, is
there
any point in even thinking about phase noise. And any decent LC VFO will
have
levels low enough to be difficult to measure.

--
Laura Halliday VA3LDH "Laisse le vent tout emporter..."
Grid: FN03gs - Foly/Viennet

Date: Mon, 20 Mar 2000 11:00:26 -0800
From: "John Moriarity" <k6qq@hdo.net>
To: <va3ldh@sympatico.ca>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [66150] Re: HB: Low Phase Noise VFO
Message-ID: <006701bf929f\$2dcf9f20\$e7424cd1@k6qq>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

----- Original Message -----

From: Laura Halliday <va3ldh@sympatico.ca>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Sent: Monday, March 20, 2000 7:01 AM
Subject: Re: HB: Low Phase Noise VFO

> References, please. At HF phase noise is rarely an issue. If it is,
it's
> due to incompetent PLL design, or some *very* unusual design
> requirements.

"Single-Sideband Systems and Circuits" Edited by Sabin and
Schoenike, McGraw-Hill, 1987, Chapter 2, page 52, section
titled "Reciprocal mixing of receiver synthesizer noise into
the IF passband". (There is a newer edition of this book.)

> All the discussion I've seen (like in Rohde's book) assumes a PLL or
> similar frequency synthesizer. They don't talk about phase noise in
the
> context of LC VFOs. Why?

Because the use of free running oscillators in commercial
(non-ham) communications equipment is rare to non-existent
these days.

> The solution remains a VFO with an up-converter. Or a VXO and a
> multiplier.

YOUR solution. I do, however, consider this to be a good technique
for ham gear.

> ... How good do you want? How good do you need?

If you will be operating in a "multi-multi" DX contest station
environment, the state-of-the-art isn't good enough!

>
> ...If LO phase noise affects receiver performance to an extent
> that it affects the receiver's ability to receive then you have a
> problem.

It frequently does affect performance, but goes unnoticed. The reciprocally mixed phase noise from a strong off-channel signal can raise the apparent noise floor and mask a weak in-channel signal. Raising the noise floor reduces the effective dynamic range!

Inversely, have you ever noticed how the noise floor seems to go up during big contests? All those synthesized rice boxes with multi-kilowatt amplifiers are spewing out their phase noise over many kilohertz!

> ...Hams seem preoccupied with phase noise, when
> there are far more important - and relevant - things to worry about.

Again, that is YOUR opinion. Talking about phase noise is certainly a way to make people think we know something, but few hams are in a position to do anything about it. Indeed, without proper instruments, it is nearly impossible to *design* a good PLL. We can make qualitative statements about the necessary conditions for good performance, but, for example, how can you know where to set the loop gain crossover frequency without detailed knowledge of the phase noise characteristics of the VCO and the reference?

> Just for fun I did a survey of the commercial radios in my shack ...
> Not one shows any issues relating to phase noise. All show effects due
> to finite dynamic range...

Again, you may not be aware of the problems unless the environment is stressful of the design.

A good portion of my engineering career was spent in the design of low phase-noise sources for communications and test equipment use. I have simulated, or experienced these effects many times. What performance is "good enough" is a decision that must be made by the individual.

73,

John, K6QQ
Quidquid Latine dictum sit, Altum videtur.

Date: Mon, 20 Mar 2000 13:34:27 -0600
From: "Bill Allen" <bill@pcatexas.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [66151] most enjoyed QRP construction project
Message-ID: <001501bf92a3\$4e25fc20\$356840ce@outown.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Gang,

I am interested in hearing what your most enjoyed QRP construction project as been lately. Not necessarily just tranceivers, but any related construction of station equipement or antennas. I enjoy hearing your experiences and am always looking for new ideas.

: -)

73
KC5ADF
Bill Allen

Date: Mon, 20 Mar 2000 14:43:27 -0500
From: Joe Mikuckis <k3chp@erols.com>
To: qrp-l@lehigh.edu
Subject: [66152] Web Page
Message-ID: <38D67F5F.16DB@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

If any of you are interested, you might check out <http://www.comlab.net/k3chp> which is a very poor attempt at my web page.

Joe, K3CHP
Riverdale, MD

Date: Mon, 20 Mar 2000 15:31:32 +0000
From: "Steven Weber" <kd1jv@moose.ncia.net>
To: qrp-l@lehigh.edu
Subject: [66153] HB: Single chip CW Rx
Message-ID: <200003202010.PAA24403@wolf.ncia.net>

MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

Howdy,

This weekend I dead-bugged a single chip Rx using one of those dual conversion FM receiver chips, an MC13136 to be specific.

Now I know there have been at least a couple of published rigs using this chip or similer, but the one's I've seen only use the mixer sections and neglect using the IF amplifer. The IF amp is a limiting amplifier, designed to remove amplitude fluxuations from a FM carrier. With about a 10 uv input signal, the IF starts to limit and the output doesn't go any higher.

Now this is a problem is your trying to demodulate SSB or AM phone, but for CW, this isn't a problem. The signal doesn't quite turn into a full square wave and the tone sounds just fine. Using the IF amp makes the receiver pretty sensitive. The limiting action of the IF amp has the neat effect of keeping all the signals sounding pretty much the same volume, except those not strong enough to limit the amplifer. Plus, RSSI is now available to drive an S meter.

Of course, these chips use a Glibert Cell mixer similer to the NE602, so have the same problems with overloading from SWBC stations. On 40, a double tuned BPF kept most of the garbage out of there and it works remarkably well. And with a LM386 for an audio amp, it works down to 3.5 V's before starting to distort. All-in-all, it makes a reasonably decent receiver that fits in a small space and draws little current.

72,
Steve, KD1JV in the white Mountains of New Hampshire
"melt solder"

End of QRP-L Digest 1766

